

CLAIMS

1. An animal rumen-resistant feed supplement in the solid form, said feed supplement comprising at least one methionine derivative and a porous carrier material wherein (a) said methionine derivative is selected from the group consisting of liquid and solid esters of the 2-hydroxy-4-(methylthio) butanoic acid, with the proviso that solid esters have a melting point of 100°C at most; the 2-amino-4-methylthiobutanamide and the 2-hydroxy-4-methylthiobutanamide, (b) said methionine derivative accounts for at least 20% and up to 70% by weight of the feed supplement and (c) said supplement is in the form of particles having a size range of from 80 to 600 microns.

2. The feed supplement of claim 1, wherein said methionine derivative is a linear or branched alkyl ester of the 2-hydroxy-4-(methylthio) butanoic acid selected from methyl ester, ethyl ester, n-propyl ester, isopropyl ester, butyl esters, namely n-butyl ester, sec butyl ester, isobutyl ester and tertio butyl ester, pentyl esters and hexyl esters, especially n-pentyl, isopentyl, n-hexyl and isohexyl esters.

3. The feed supplement of claim 2, wherein the ester is the isopropyl ester or the tertio butyl ester.

4. The feed supplement as claimed in any one of the preceding claims, wherein the porous carrier material has a porosity of at least 0.4 ml/g, and preferably at least 1.5 ml/g.

5. The feed supplement as claimed in any one of the preceding claims, wherein the carrier material is selected from natural clays and silicates such as vermiculite, sepiolite, perlite, bentonite; from zeolithes or from porous silica.

6. The feed supplement of claim 5, wherein the carrier material is sepiolite and the methionine derivative accounts for up to 40% by weight of the feed supplement.

7. The feed supplement of claim 5, wherein the carrier material is silica and the methionine derivative accounts for up to 70% by weight of the feed supplement.

8. The feed supplement as claimed in any one of the preceding claims, wherein the particles have a size range of from 125 to 500 microns, preferably from 160 to 400 microns.

9. An animal feed comprising a feed supplement as claimed in any one of the preceding claims.